

CLOCK SUPPLY CIRCUIT

ABSTRACT OF THE CLOSURE

5 A clock supply circuit capable of supplying clock
signals having different frequencies to processing
circuits, simplifying the circuit configuration, and
realizing a reduction of the power consumption only by
using a low frequency external oscillator, wherein a
reference clock is multiplied by a multiplication circuit
to generate a multiplied clock, the multiplied clock is
divided by a predetermined division ratio to generate a
clock signal having a desired constant frequency by a
receiving clock generating circuit, furthermore, a DSP
clock generating circuit generates a clock signal having
a variable frequency according to a processing load of a
DSP in accordance with a judgment result of a load
judgment circuit, so it is possible to supply a clock
signal maintained synchronization with received signal as
well as a clock signal having a frequency variably
controlled in accordance with the processing load.